WETLAND DETERMINATION DATA FORM - Great Plains Region

vestigator(s):				
andform (hillslope, terrace, etc.):	chant	Local relief (concav	ve, convex, none):	Slope (%):
ubregion (LRR):	Lat: <u>75</u>	0842,022565	Long: 208 1734, 11	Datum: _\u0Al
oil Map Unit Name: NA - mitigat	or dea		NWI classi	fication:/\/A
re climatic / hydrologic conditions on the site typic	al for this time of yea	r? YesX_ No	o (If no, explain in	Remarks.)
re Vegetation, Soil, or Hydrology				
e Vegetation, Soil, or Hydrology _				
UMMARY OF FINDINGS – Attach site	e map snowing	sampling poin	t locations, transect	s, important features,
Hydrophytic Vegetation Present? Yes	X_ No	Is the Samp	lad Araa	
	× No		tland? Yes	V No
Netland Hydrology Present? Yes	X No	within a we	nanu: 1es	A
Remarks: Mitigation area. Ne	w wound are	comstances	Fran horrs	woit orea
77.75	,	,	1 domes out	
EGETATION – Use scientific names o	of plante		1. 11	п 8
		Dominant Indicato	or Dominance Test wo	rksheet:
ree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant	
· <u> </u>			_ That Are OBL, FACW	Las EAC
			(excluding FAC-):	, or fac Z (A
i			_ Total Number of Dom	inant
			 Species Across All Str 	rata: <u>2</u> (B
Conline/Chruh Ctratum /Dlataine	· _ ===================================	Total Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: wetter).	_) AEV. 1.5	V E	That Are OBL, FACW	, or FAC: (A
	DAE! 1	FAC	Prevalence Index wo	orksheet:
			Total % Cover of:	Multiply by:
·				x 1 =
			FACW species	x 2 =
	46 =	Total Cover	FAC species	x 3 =
			FACU species	x 4 =
E				x 5 =
	3 101	FACU	Column Totals:	(A) (
	TO1 55	Y FACW		x = B/A =
	PO1 41	FACU	Hydrophytic Vegetat	
	SQL <1	FACU	1 Panid Test for	Hydrophytic Vegetation
	Sm1 15	FACU	Dominanaa Ta	
	LAI 4	FAC	_	
• 1	ST1 <1 -	FACU	4 Manula da ataut	Adaptations ¹ (Provide support
	BAI I	FACU	∠ I data in Remarl	ks or on a separate sheet)
0. <u> </u>		FAC	Problematic Hydro	ophytic Vegetation¹ (Explain)
loody Vine Stratum (Plot size:		Total Cover	¹ Indicators of hydric so	oil and wetland hydrology mus
	Total = 80.25	1.9	be present, unless dis	
			_ Hydrophytic	1 7 2 7
	=	Total Cover	Vegetation	· V
Bare Ground in Herb Stratum		150	Present? Ye	es No
emarks:		12590 2	20% = 16,05%	

Great Plains - Version 2.0

Profile Description: (Describe	to the depth n	eeded to docun	nent the ind	licator or	confirm th	e absence of	indicators.)
Depth <u>Matrix</u>			x Features				
(inches) Color (moist)	%(Color (moist)	%	Type ¹ I	Loc ²	Texture	Remarks
		···	-				
	-					·	
			· —— –				
				······			
						2	
Type: C=Concentration, D=De	····	·					on: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol (A1)	sabio to qii ziti	Sandy G		•			k (A9) (LRR I, J)
Histic Epipedon (A2)			Redox (S5)	. (01)	•		irie Redox (A16) (LRR F, G, H)
Black Histic (A3)			Matrix (S6)				ace (S7) (LRR G)
Hydrogen Sulfide (A4)		Loamy N	Mucky Miner	al (F1)	,	High Plair	ns Depressions (F16)
Stratified Layers (A5) (LRR		Loamy (Gleyed Matri	x (F2)		(LRR I	doutside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G,		Depleted				Reduced	• •
Depleted Below Dark Surface	ce (A11)		Oark Surface				nt Material (TF2)
Thick Dark Surface (A12)			d Dark Surfa			Very Shal	low Dark Surface (TF12)
Sandy Mucky Mineral (S1)			Depressions				plain in Remarks)
2.5 cm Mucky Peat or Peat							nydrophytic vegetation and
5 cm Mucky Peat or Peat (S	3) (LRR F)	(ML)	RA 72 & 73	of LRR H)			drology must be present, turbed or problematic.
Restrictive Layer (if present):							
Type:							
					H	lydric Soil Pro	esent? Yes X No X
Depth (inches):		-					
Remarks:		-					
Remarks:	- B soil	pit data	-San	ne gen	neigh c	on detions	4 orea
	- B Soil	pit data	San	ne gen	neial C	on detions	4 orea
Remarks: See FC1-	- B Soil	pit data	5an	ne ger	neud Ci	on detions	4 oren
Remarks: See FC1- YDROLOGY		pit data	-5a	ne ger	neial Ci		
YDROLOGY Wetland Hydrology Indicators	· · · · · · · · · · · · · · · · · · ·			ne ger	neid Ci		d ones.
YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of o	· · · · · · · · · · · · · · · · · · ·		/)	ne gen	neigh Ci	Secondary	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of o	· · · · · · · · · · · · · · · · · · ·	eck all that apply	<u>/)</u> (B11)		neist Ci	Secondary Surface	ndicators (minimum of two require
YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of o	· · · · · · · · · · · · · · · · · · ·	eck all that apply	(B11) vertebrates (l	B13)	neist Ci	Secondary Surface Sparse	Indicators (minimum of two require
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of a State of S	· · · · · · · · · · · · · · · · · · ·	eck all that apply Salt Crust (Aquatic Inv	(B11) vertebrates (l	B13) (C1)	neist C:	Secondary Surface Sparse X Drainag	Indicators (minimum of two require Soil Cracks (B6) Iy Vegetated Concave Surface (B
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of other particular) X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	· · · · · · · · · · · · · · · · · · ·	eck all that apply Salt Crust (Aquatic Inv	/) (B11) vertebrates (l Sulfide Odor n Water Tab	B13) (C1) le (C2)		Secondary Surface Sparse X Drainag Oxidize	ndicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Bage Patterns (B10)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of other particular) X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	· · · · · · · · · · · · · · · · · · ·	eck all that apply Salt Crust of the Aquatic Inv Hydrogen S	r) (B11) rertebrates (I Sulfide Odor n Water Tab hizospheres	B13) (C1) le (C2)		Secondary Surface Sparse Y Drainag Oxidize	ndicators (minimum of two require Soil Cracks (B6) In Vegetated Concave Surface (Ba In Patterns (B10) In Rhizospheres on Living Roots (
Primary Indicators (minimum of of the content of th	· · · · · · · · · · · · · · · · · · ·	eck all that apply Salt Crust of Aquatic Inv Hydrogen S Dry-Season Oxidized R	r) (B11) rertebrates (I Sulfide Odor n Water Tab hizospheres	B13) (C1) le (C2) on Living		Secondary Surface Sparse X Drainag Oxidize (whee	ndicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Base Patterns (B10) d Rhizospheres on Living Roots (re tilled)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of of the content of the con	· · · · · · · · · · · · · · · · · · ·	eck all that apply Salt Crust (Aquatic Inv Hydrogen S Dry-Seasor Oxidized R (where n	(B11) vertebrates (I Sulfide Odor n Water Tab hizospheres tot tilled)	B13) (C1) le (C2) on Living		Secondary Surface Sparse Yorainag Oxidize (whee Crayfisl	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Base Patterns (B10) d Rhizospheres on Living Roots (Fee tilled) in Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of other indicators) X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) X Drift Deposits (B3) Algal Mat or Crust (B4)	: one required; che	eck all that apply Salt Crust (Aquatic Inv Hydrogen S Dry-Seasor Oxidized R (where n	(B11) vertebrates (I Sulfide Odor n Water Tab hizospheres not tilled) of Reduced I Surface (C7	B13) (C1) lle (C2) on Living ron (C4)		Secondary Surface Sparse X Drainag Oxidize (whee Crayfisl Saturat X Geomo	indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Base Patterns (B10) d Rhizospheres on Living Roots (re tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of other indicators) X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) X Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	: one required; che	eck all that apply Salt Crust (Aquatic Inv Hydrogen S Dry-Seasor Oxidized R (where n Presence c Thin Muck	(B11) vertebrates (I Sulfide Odor n Water Tab hizospheres not tilled) of Reduced I Surface (C7	B13) (C1) lle (C2) on Living ron (C4)		Secondary Surface Sparse X Drainag Oxidize (whee Crayfish Saturat X Geomo	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Bage Patterns (B10) d Rhizospheres on Living Roots (Fee tilled) on Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of a second secon	: one required; che	eck all that apply Salt Crust (Aquatic Inv Hydrogen S Dry-Seasor Oxidized R (where n Presence c Thin Muck	(B11) vertebrates (I Sulfide Odor n Water Tab hizospheres not tilled) of Reduced I Surface (C7	B13) (C1) lle (C2) on Living ron (C4)		Secondary Surface Sparse X Drainag Oxidize (whee Crayfish Saturat X Geomo	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Bige Patterns (B10) d Rhizospheres on Living Roots (Fre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) riphic Position (D2) eutral Test (D5)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of a second secon	: one required; che	eck all that apply Salt Crust of Aquatic Inv Hydrogen Son Dry-Season Oxidized Rown (where in Presence of Thin Muck Other (Exp	(B11) rertebrates (I Sulfide Odor n Water Tab hizospheres not tilled) of Reduced I Surface (C7 lain in Rema	B13) (C1) le (C2) s on Living ron (C4)) arks)		Secondary Surface Sparse X Drainag Oxidize (whee Crayfish Saturat X Geomo	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Boge Patterns (B10) d Rhizospheres on Living Roots (Fre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of on the content of the co	ene required; che	eck all that apply Salt Crust of Aquatic Inv Hydrogen Son Oxidized Rowner on Presence on Thin Muck Other (Exp	(B11) vertebrates (I Sulfide Odor n Water Tab hizospheres not tilled) of Reduced I Surface (C7 lain in Rema	B13) (C1) le (C2) on Living ron (C4)) arks)		Secondary Surface Sparse X Drainag Oxidize (whee Crayfish Saturat X Geomo	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Bige Patterns (B10) d Rhizospheres on Living Roots (Fre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) riphic Position (D2) eutral Test (D5)
Primary Indicators (minimum of of the content of th	: one required; che Imagery (B7) /esX No /esX No	eck all that apply Salt Crust of Aquatic Inv Hydrogen Son Dry-Season Oxidized Rown (where in Presence of Thin Muck Other (Exp	(B11) vertebrates (I Sulfide Odor in Water Tab hizospheres iot tilled) of Reduced I Surface (C7 lain in Remainshes): ches): ches):	B13) (C1) le (C2) on Living ron (C4)) arks)	Roots (C3)	Secondary Surface Sparse X Drainag Oxidize (whee Crayfisl Saturat X Geomo FAC-Ne	Indicators (minimum of two requires Soil Cracks (B6) by Vegetated Concave Surface (Boge Patterns (B10) d Rhizospheres on Living Roots (Fre tilled) in Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)

Rained last night

≤ -Remarks:

Wetland Determination Data Form - Great Plains Region Extra Page for Vegetation Species

Date	9/10/11			
Sampling Point	9/10/14 FC1-1C	(42c)	- -	
Tree Stratum			-	
	Scientific Name	Absolute % Cover		Indicator Status
5				
7		·		
8		·		
9				
10				
			= Total Cov	/er
Sapling/Shrub St	ratum			
		Absolute	Dominant	Indicator
	Scientific Name	% Cover	Species?	Status
6				
8				
9	** ** ** ** ***			
10				
			= Total Cov	 er

Herb Stratum

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·	Scientific Name	Absolute % Cover	Dominant Species?	Indicator Status
11	AGCAI	41		FACU
12	FEPRI	1	1	FACU
13				1,7,00
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				***
29				
30				
31				
32				
33				
34				
35				

1,25 = Total Cover

Over > ? No

Wetland Determination Data Form - Great Plains Region Extra Page for Vegetation Species

Date Sampl	ing Point		-	
Tree S	tratum		•	
	Scientific Name	Absolute % Cover	Dominant Species?	Indicator Status
11				
12				······································
13				
14				
15				
			= Total Cov	er

Sapling/Shrub Stratum

P	Scientific Name	Dominant Species?	
11			
12			
13			
14			
15			

= Total Cover

Herb Stratum

-	Scientific Name	Absolute % Cover	Dominant Species?	Indicator Status
36		1	1	Otatas
37				w
38			1	
39		1		
40				
41				
42				
. 43				
44				
45	, , , , , , , , , , , , , , , , , , , ,			
46				
47				
48		†		
49				
50				
51				
52			<u> </u>	
53				
54				
55				
56				
57				
58				
59				
60				
61				

= Total Cover

Wetland Qualitative Reveg	etation Evaluatio	n Form				Form #_	
Date							
Observer(s)	od Nelson						
Date Observer(s) Location ID FC1	-IC (42c)	_					
Photographs taken today?	. Y	\bigcirc					
Are desired wetland plant spe	ecies present?	\bigcirc	N				
Are there any issues regarding	g the establishmen	t of the de	esired we	tland sp	ecies? F	Explain.	if so
0.0							11 50.
Are the hydrologic conditions	appropriate for suc	ccessful e	stablishn	nent and	l sustaina	shility of	f the
wetland. If not, describe the p	roblem/issue.				· oastanie	ionity of	i tiic
i s. a. a							
yes							
Woody Plant Counts							
			Height			Width	
Species	Stem Count	1	2	3	1	2	3
SAEXI	too numerous	3/	3.51	41	21	71	٦,

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

 I^{ℓ}

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Suggestions for management:

Control weeds as needed.

Other comments:

SAEXI Filling in very well. Area looks good +

Should continue to improve our time.

scal stombole

Completed by: Jod K. N. al.

J KM

Date 9/10/14